

**The Ohio State University
Agricultural Technical Institute**

Annual Report of Activities

1999

1999 ACTIVITY REPORT

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SUMMARY

TEACHING

A. COURSES OFFERED

Quarter	Courses	Enrollment	Credit Hours
Winter	125	3505	12369
Spring	130	2775	9220
Summer	39	489	1895
Autumn	133	4526	14171

B. CURRICULUM DEVELOPMENT

- Implementation of the new Ohio State ATI curriculum was the most significant accomplishment of the past year. Effective Autumn, 2000 incoming students will enroll under the requirement of the new curriculum.
- In some specialized cases, faculty have been working to move course material to a web based format with the long-term goal of teaching via distance education.
- Linkages with other colleges, remains a focal point of Institute activity. Ongoing partnerships are in place with Ohio University at Lancaster, Kent State University at Ashtabula and Akron University's Wayne College (collaborative in-plant offering of credit courses for Gerstenslager Company employees).
- Both the new certificate program in Hydraulic Service and Repair and the two specialized Associate of Technical Study programs for individuals in the dairy equipment service and sales area, developed in partnership with Alfa Laval Agri, Inc., were implemented.

C. OUTREACH ACTIVITY

The Office of Continuing Education (CE) continued to serve the local community and the state through a variety of outreach activities (e.g. Great Lakes International Grazing Conference, Ohio Dairy Farm Employees Short-Course, Ohio AgriBusiness Association Custom Applicator Academy, Ohio Plant Health Care Program, etc.). CE was also actively involved in delivering in-plant instructional programs (Frito-Lay, Gerstenslager Co., Dover Hydraulics, etc.). Workforce development partnerships have been maintained with Seaman Corporation, Mannesmann Rexroth, and Monsanto. In addition, the Industrial Automation Maintenance non-credit certificate program has again has a successful year in serving 42 different employees from 20 different companies.

Ground was broken for two major construction projects, which promise to significantly enhance capability for Ohio State ATI outreach activities.

- The **Center for Education and Economic Development (CEED)** will be a full-service conferencing center. CEED will be used by University/industry groups for on-site instruction or meetings as well as distance education, for extension outreach or college credit programs. Groups of any size up to 1000 individuals may be accommodated on-site. CEED will be equipped with the latest in video conferencing equipment to accommodate distance program delivery.
- The new **Equine Center** will house the Ohio State ATI horse management program. Facilities will include 50 stalls, housing equitation and breeding horses, and a 20,000 square foot indoor riding arena.

RESEARCH AND SCHOLARLY ACTIVITIES

A. PUBLICATIONS

Nearly two-thirds of the Faculty at ATI wrote and published works in 1999. Publications of all types totaled sixty-five (65). This was seventeen (17) more than in the previous year. Forty percent of ATI

faculty served as editors of manuscripts for scientific journals or for other industry/professional publications. Editorial responsibilities for faculty occur mostly at the regional or national level (includes some publications distributed internationally).

B. PRESENTATIONS

Ohio State ATI faculty were sought after to present to local, state, national and international audiences. Twenty-seven (27) presentations were made during 1999.

SERVICE

Faculty were very active in service to the local community as well as to state, regional and national organizations. Level of involvement and scope of activities is admirable given the average faculty workload. Faculty involvement, included membership on boards of directors and various committees of national societies and professional organizations.

GRANTS AND CONTRACTS

Grants in progress:

Upward Bound – to motivate and assist high school students to prepare for college.

Program EXCEL – to support currently enrolled students with additional counseling, tutoring and other forms of learning assistance to help them succeed in college.

Tech Prep – to develop an articulated curriculum with high school horticulture programs and ATI.

U.S. Department of Education – Strengthening Institutions Program Title III Proposal – Increasing Student Access and Success through the Development of a Distance Education Program - \$1,748,300 grant proposal. Submitted: May, 1999, notified September, 1999 that the proposal was not funded - will be re-submitted in the winter of 2000.

INTERNATIONAL ACTIVITIES

- ATI hosted Kaj Pharsen from Aalborg Technical College in Denmark during the Autumn quarter.
- A short-term dairy study tour was organized at the Institute for three Japanese college students from Rakuno Gakuen University.
- Sha Rahnema, an ATI faculty member, lectured at the University of Uromieh in Iran as an invited guest.

AWARDS AND HONORS

Six faculty members received special recognition during 1999.

- Mike Borger: Recipient of ATI Distinguished Teaching Award
Recipient of College FAES Teaching Award
- Ron Borton: Selected as ATI Outstanding Advisor
Selected as College Outstanding Advisor
- Mark Headings: Received the Outstanding International Scholar Award from the Alpha Epsilon Chapter of Phi Beta Delta (Honor Soc. for International Scholars at OSU)
- David Munn: Wayne Co. Soil and Water District (Secondary/Post Secondary) Outstanding Conservation Teacher 1999.
- Sha Rahnema: Received the Outstanding International Scholar Award from the Alpha Epsilon Chapter of Phi Beta Delta (Honor Soc. for International Scholars at OSU)
- Allen Zimmerman: Received the NACTA Teaching Fellow Award.

FACULTY BY RANK

Professor (1)

Gary Anderson

Associate Professor (19)

Roger Baur

Michael Borger

Ronald Borton

Thomas Bowman

Michael Fulton

Wesley Greene

Kent Hammond

Mark Headings

Linda Houston

Phil Kroll

Robert McMahon

Arnold Mokma

David Munn

Steven Neal

Jean Opliger

Sha Rahmena

Samuel Woods

Allen Zimmerman

Tommy Zimmerman

Assistant Professor (15)

Athanasios Alexandrou

Mike Amstutz

Kenneth Cochran

Richard Dobec

Gregory Gordon

Theresa Lanker

Shirley Lunsford

Emil Miller

Lynn Schramm

Eric Shaw

D.E. Stewart

Royce Thornton

Daniel Voltz

David Willoughby

Karen Wimbush

Instructor (4)

James Carr

Ella Copeland

Frank Jennings

Robert Rupp

Associate Professor/Director Emeritus

Daniel Garrison

Associate Professor Emeritus

George Kreps

Richard Niklas

Clyde Opliger

John Roberts

Charles Stock

Assistant Professor Emeritus

Frederick Lendrum

Sigel Stocker

I. TEACHING

A. COURSES OFFERED

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B. CURRICULUM DEVELOPMENT/INITIATIVES

Ohio State ATI faculty carry heavy instructional loads (12+ credit hours and up to 20 contact hours per quarter) and are continually working to improve course and curriculum content. Faculty work diligently to keep course content up-to-date and relevant.

Curriculum Revision

The Institute's faculty worked to implement new graduation requirements for students entering in the fall of 2000. In early 2000 all Associate of Applied Science curricula had been modified to conform to the new degree requirements.

New Academic Programs

Hydraulic Service and Repair certificate program approved and implemented.

Short-term Farm Study Program for Rakuno Gakuen University (Japan) students. Three students visited from Japan for a two week intensive educational experience including in class experiences, laboratories, industry tours, and a short-term dairy farm stay.

Two specialized Associate of Technical Study programs for individuals in the dairy equipment service and sales area were developed in partnership with Alfa Laval Agri, Inc.

New Course Development

W. Greene and R. Thornton developed the Applied Dairy Herd Management course and gave input regarding the new dairy cattle facilities course.

D. Munn Developed Crop & Soil T294 *Principles of Organic Gardening and Farming* to be taught Winter 2000.

Course Revision

M. Amstutz, in his role as a new faculty member, revised a number of courses by incorporating new laboratory sessions, developed and delivered lecture material to be presented via computer presentation, incorporated assignments where students were required to search the web to find answers, and effectively used new technology and field trips to teach current information.

Mike Borger added a 4-day western field trip as part of Beef Production lab. This was activity was highly praised by students.

Tom Bowman revised Gen Chem T131 and T132 to incorporate those topics the faculty felt that they wanted in these two courses. These two revised courses have been submitted to Academic Affairs Committee and they have been approved effective Au/00.

G. Gordon significantly revised Eng Tec T249 (homework assignments, lecture notes, tests, and lab assignments).

Emil Miller developed a course outline for a 3 credit hour Gen Math T294 course that would serve as a second developmental course.

Jean Opliger adapted T111, T112 and T113 to meet the needs of the adult learner at Gerstenslager. Developed individualized, customized professional development processes for a supervisor and top administrator at the Wooster City Schools. Developed customized curriculum for Rexroth Agile Manufacturing team. Designed curriculum for the College of Wooster Professional Development Academy.

Frank Jennings developed a Study Guide (118 pages) for Bus Tec T101 Accounting students to buy at the OSU Bookstore. This was a compilation of a year's work of handouts and working problems as examples and homework.

Shirley Lunsford revised **Gen Comm T100** (Improving College Reading). Portfolio revised with numerous handouts/lab activities utilizing the Internet

Robert Rupp revised General Biology T120 and General Biology T125 by incorporating new texts.

Lynn Anderson-Schramm Roger Baur development of web pages (www.ag.ohio-state.edu/~ati-bus) for the Business area. This involved designing the master web page to link to information about the three programs (Agricultural Business, Agricultural Commerce, and Business Management) and to courses

Eric Shaw revised General Chemistry T131 by adopting a new text as the basis for instruction, incorporating more of an applied methodology of teaching chemistry.

Dan Voltz and Kent Hammond reviewed the distance learning program developed by Davey Tree. The Tech Prep Consortium is interested in developing a transfer module involving this program.

Dave Willoughby introduced the Student Turf Plant Management Unit into the Golf Course Organization and Management course. Students established and maintained their own 3 x 4 foot turf plot as part of a "managing multiple projects" unit.

Dr. Wimbush has incorporated more and more student-centered learning exercises in her classes. She uses many short (10-15 minute) student-centered learning exercises in conjunction with lecture that help to clarify, point out applications and encourage critical thinking and decision making from students.

C. OUTREACH ACTIVITIES (CONTINUING EDUCATION ACTIVITY)

Workforce Development

In cooperation with OSUE, hosted the **Great Lakes International Grazing Conference** at Fisher Auditorium - 457 participants.

Co-sponsored, with the OSUE Dairy Team, the second annual **Dairy Farm Employee Short Course**, 19 participants from 13 organizations/farms.

The **Industrial Automation Maintenance** program served 42 people from 20 different companies.

In partnership with the **Ohio AgriBusiness Association**, hosted the second annual Custom Applicator Academy, a week-long, hands-on program serving 30 participants from 26 different businesses across Ohio.

Host site for the **Ohio Plant Health Care Program**, serving 30 participants from 23 organizations.

Initiated a partnership with The **College of Wooster** for an employee communication and supervisory skill development program.

As a result of our work with **Frito-Lay** in Wooster, the Frito-Lay plant in Allen Park, Michigan called for our help with interpersonal/supervisory skill training. Served 35 people through a 10-session program.

Partnership with University of Akron-Wayne College and the Gerstenslager Company made the first year of Gerstenslager TEC, the credit program on-site at the company, a success. Seventeen individuals completed the first year of a degree program.

Provided ISO/QS 9000 training and grant funding for **Empire Plow of Cleveland**, who received their Certification in an extremely short period of time. Also provided ISO/QS 9000 training for **Tusco and Invincible Air Flow**.

Maintained ongoing training and workforce development partnerships with **Seaman Corporation, Mannesmann Rexroth, and Monsanto**.

Hosted three students from **Rakuno Gauken University in Japan**, for a hands-on dairy farm living and learning experience.

Hosted the **Program Success Summit/Tech Update** a two-day educational event for high school agricultural instructors on the ATI campus June 15th and 16th. Several faculty and staff made presentations including G. Anderson, G. Gordon, W. Greene, Jeff Lucas, L. Steward, and K. Wimbush

Conducted an in-plant program for **Dover Hydraulics** in summer, 1999. This 30 hour course followed the general outline of the Basic Hydraulics (IAM) course, but was customized for the customer. This program had ten participants.

Presentations to Industry Groups

Gary Anderson: Gave an illustrated program entitled "Vines to Use in Association with Perennial Borders" at the 1999 Perennial School sponsored by Ohio State University Extension and Associated Green Industries of Northeastern Ohio.

Presented a program on selecting and using vines in the landscape at the Cuyahoga County Master Gardeners program.

Mike Borger: Tri County Northeast Ohio Beef group on beef carcass parameters for contests.

Hosted the Ashtabula County Beef Cattleman's group and the National Beef meeting of Select Sires International at ATI.

Jim Carr: Basic Superintendent and Residential Construction Training Program for Builders' Council of the Building Industry Association of Central Ohio (Columbus).

Ken Cochran: Conducted a propagation workshop for Cuyahoga County Master Gardeners and Stark/Summit Extension Plant Lovers School.

Organized and co-directed Deciduous Shrub School with Charles Behnke, Lorain County Extension and Jack Karrigan, Cuyahoga County Extension.

Hosted Northeast Ohio Master Gardeners and Bowling Green Master Gardeners.

Taught and assisted with the planning and organization of the Plant Health Care School.

Assisted with Northeast District Diagnostic Workshop.

Wesley Greene: Monsanto Dairy Production and Farm Management Training sessions (12 participants).

Mike Fulton: Presented an educational session on "Making the Right Grass Selection" for the Northeastern Ohio OSU Extension Lawncare Workshop.

Mark Headings: Taught a short course entitled, Exploring the Insect World, at ATI as part of the Spring Wayne County Enrichment Academy for grades four to eight in the evenings of March 8, 10, 15, & 17. Thirteen students were enrolled.

Taught two, two-hour sessions on Pesticide Toxicity, Labels and MSDS, at the Custom Applicator School sponsored by the Ohio Agr. Bus. Assn.

Bob McMahon: Taught a two-day bedding plant workshop for CropKing, Inc. Participated in the ATI 1999 Elderhostel.

David Munn: Conducted a session on field conditions at the Custom Applicator School sponsored by the Ohio Agr. Bus. Assn.

Sha Rahnema: Presented a seminar to Dr. Michael Dinakaren and his students (12) from Oberlin College, on "Indoor, Intensive Aquaculture Production" on October 28, 1999.

Larry Steward: Presented two workshops on "Native Plants in the Landscape" at the Professional Horticulture Conference of Virginia.

D. Elder Stewart: Elderhostel program on The Healing Power of Music.

R. Thornton: Monsanto Dairy Production and Farm Management Training sessions (12 participants)..

OSUE Dairy Farm Employee Short Course (four sessions: Get acquainted mixer, milking systems overview, milking equipment and inspection, and milking procedures/management; 13 participants).

Karen Wimbush: Regional District 3 FFA Horse Judging contest was held in March at ATI's horse facility. Dr. Wimbush set up the classes, served as official judge, assigned the official 'cuts' of each class and wrote the questions for the questions portion of the contest (approximately 60 students participated).

Served as a judge for a local Youth 4-H show in Holmes County.

Dr. Wimbush presented a talk on "Horse Safety and Behavior" to a local 4-H group (approximately 10 4-H students and 2 4-H leaders attended).

Sam Woods: Taught the applicator math portion of the "Applicator Academy" at the Custom Applicator School sponsored by the Ohio Agr. Bus. Assn.

Allen Zimmerman: Co-developed and co-taught (with Russ Rudy, Kansas Energy Insitute) a four-hour pre-conference workshop entitled "Building Science 101: Heat Transfer, Psychrometrics, and Fluid Flow" at the Affordable Comfort Conference, Chicago to to 11 participants.

Co-developed and co-taught (with Doug Walters, Kansas Energy Insitute) a four-hour pre-conference workshop entitled "Building Science 102: Electricity, Sound, Electromagnetic Radiation, and Light" at the Affordable

Comfort Conference, Chicago to 10 participants.

II. RESEARCH AND SCHOLARLY ACTIVITIES

A. PUBLICATIONS

1. Books and Monographs

General Chemistry Laboratory Manual, 2nd Edition. **Thomas L. Bowman**, 2000. The publisher remains Mohican Publishing Company.

J. Carr. *Residential Foundations*. Home Builders Press, Washington, D.C. 2000.

Cochran, K. and D. Voltz, *Hortprofiles Volumn II*, Ohio State ATI, 1999.

Houston, L. Teaching English in the Two-Year College(TETYC), What Works for Me: Let the Students Determine Course Content, Vol. 26, No. 3, March, 1999.

Houston, L., Teaching English in the Two-Year College (TETYC), What Works for Me: Group Work. Vol. 27, No. 1, September, 1999.

Miller, Emil, Introduction to Technical Mathematics, Loudonville, OH, Mohican Publishing Company, 1999.

2. Edited Books

McMahon, Robert W. *Introduction to Greenhouse Production, Second Edition*. Ohio State University Agricultural Education Curriculum Materials Service. Columbus, OH. 1999. 391 pp.

3. Chapters in Edited Books

Houston, Linda "Budgeting and Politics: Keeping the Writing Center Alive." *Administrative Problem-solving for Writing Programs and Writing Centers*. Linda Myers, ed. Urbana, IL: NCTE, 1999. Article published earlier in *TETYC* requested for publication in *Background Readings to Accompany Writing First* published by Bedford/St. Martin.

4. Bulletins and Technical Reports

Anderson, Gary A., "Color Combinations for Herbaceous Flower Beds," The Buckeye, September 1999. An eight page invited technical article with 12 illustrations in the publication of the Ohio Nursery and Landscape Association.

Chatfield, J., E. Draper, **K. Cochran**, P. Bristol and D. Allen, "Comprehensive Aesthetic Evaluations of Crabapples at Secrest Arboretum in Wooster: 1993 - 1998," *Ornamental Plants Annual Reports and Research Reviews*, 1998. Special Circular 165, January 1999, pp.94 – 104.

Cochran, K., *Taxus and Taxol Research*, Special Circular 150, OARDC, December 1999, pp 15–16, 17–27, 28–31, 32–33, 34–39.

Hansen, R., **K. Cochran**, H. Keener and E. Croom Jr., "Taxus Populations and Clippings Yields at Commercial Nurseries," *Taxus and Taxol Research*, Special Circular 150, OARDC, December

1999, pp. 17 - 27.

Isler, B.J., K. M. Irvin, **S. M. Neal**, S. J. Moeller, M. E. Davis, and D. L. Meeker. 1999. Examination of the relationship between the estrogen receptor gene and reproductive tract components in swine. OSU Dept. Anim. Sci. Res. and Rev. OARDC.

Isler, B.J., K. M. Irvin, **S. M. Neal**, S. J. Moeller, M. E. Davis, and D. L. Meeker. 1999. The effect of the estrogen receptor gene on litter traits in swine. OSU Dept. Anim. Sci. Res. and Rev. OARDC.

Terry Lanker wrote eleven articles for Florists' Review.

Peter Ling and **Robert W. McMahon**. "Just-in-Time Watering," GrowerTalks. April 1999, pg 82.

5. Peer-Reviewed Journal Articles

Willard, S. T., **Amstutz, M. D.**, Abraham, E. J., Castano, J. P., Leaumont, D. C., Faught, W. J., and Frawley, L. S. 1999. Simultaneous indirect activity measurements of GH and PRL genes in the same, living mammosomatotrope. *American Journal of Physiology*, **277**: E1150-E1153.

Houston, L. 1999. "TETCYC: Helping the Two-Year College English Teachers."

Neal, S.M., K.M. Irvin and G.C. Shurson. 1999. Effect of lactation diet fat level on sow and litter performance. *The Professional Animal Scientist*. vol.15. no. 1.

Rahnema, S., 1999. Potato chip scraps as a source of energy in the diet of nursery pigs. *J. Prod. Agri.* 12: 641-643.

Ross, J.E., S.C. Loerch, and **M.L. Borger**. 1999. Poultry Manure as a Supplement in High Concentrate Diets Limit-Fed to Beef Cows. Vol. 15. No. 4.

Stewart, T.S., K.M. Irvin and **S.M. Neal**. 1999. Multiple trait selection in swine. National Swine Improvement Federation Fact Sheet 10 (revision of previous publication).

Voltz, D.C. and Zimmerman, A. 1999. *Personalities of Landscape Company Managers and Landscape Horticulture Graduates Are Similar*. HortTechnology 9(1):122-126.

Willoughby, David A. Recommendations For A Successful Professional Industry-Employment Internship For College Faculty, NACTA Journal, Vol.43 No.2, June 1999. p14.

Zimmerman, A. Developing and teaching an orientation course for students at a technical college. *NACTA Journal* 43(1):25-31.

6. Editor-Reviewed Journal Articles

Anderson, Gary A., "Garden of Roses of Legend and Romance," Public Garden: The Journal of the American Association of Botanical Gardens and Arboreta, Vol 14, No. 1, January 1999.

Headings, Mark E. 1999. Skunks Aren't Good News, *Bee Culture*, Vol. 127, No. 6, A.I. Root Company, Medina, Ohio, pp 36-37.

D.A. Munn and F. Murray. 1999. *Reclaiming Acid Mine Soil with Drywall and Manure*. *BioCycle* 40(10):59-60. (copy attached)

7. Reviews and Abstracts

Borton, R. J., K.E. McClure and D. M. Wulf. "Sensory evaluation of loin chops from lambs fed concentrate or grazed on ryegrass to traditional or heavy weights." American Society of Animal Science. Journal of Animal Science Volume 77, Supplement 1, 91st Annual Meeting Abstracts, p 168, 1999.

Carr, Jim. "Using The Internet To Embellish Instruction" was accepted for Syllabus99, Santa Clara State College, Santa Clara, CA.

Carr, Jim. 1999. Using the Internet to Enhance Learning in a Traditional Classroom. Online Teaching and Learning Conference at Duquesne University, Pittsburgh.

Carr, Jim. "Validating World Wide Web Information" Innovation Abstracts, January 1999. (A publication of National Institute for Staff and Organizational Development at the University of Texas at Austin.)

Greene, W.A. and M.L. Borger. 1999. Estrus detection and pregnancy rates in postpartum beef cows after synchronization with GNRH and prostaglandin F₂. JAS 77, Suppl. 1 page 241.

B.J. Isler, K.M. Irvin, **S.M. Neal**, S.J. Moeller, and M.E. Davis. 1999. Association between the estrogen receptor gene and reproductive components in swine. J. Anim. Sci. Suppl. 1.

Munn, D.A. Book Review in NACTA J. of the book *Rural Resource Management Problem Solving for the Long Term*. NACTA J. Sept. 1999.

Munn, D.A. 1999. *Agronomic Evaluation of Steel Industry Slags as Liming Materials*. Annual Meeting Abstracts, American Society of Agronomy p. 258.

Rahnema, S. and R. Borton. Effect of different levels of potato chip scraps on the performance of nursery pigs. JAS. Vol. 77, Suppl. 1.

Rahnema, S. and R. Borton. Effect of different levels of potato chip scraps on the performance of growing and finishing pigs. JAS. Vol 77. Suppl. 1.

Stewart, D.E. and Carr, Jim. 1999. Service Learning: An Educational Strategy. International Conference on Teaching and Leadership Excellence sponsored by the National Institute for Staff and Organization Development of the University of Texas (Austin).

Thornton, R.B. 1999. Using Dairy Herd Improvement and herd data to evaluate the effects of Posilac® on lactation milk yield, somatic cell score, days open, body condition, and profit in a commercial dairy herd. J. Dairy Sci. 82 (Suppl. 1):77-78.

Thornton, R.B., W.A. Greene, and K. Hammond, Using an industry advisory committee to assist a technical dairy education program in keeping current with the needs of the dairy industry. J. of Dairy Sci. 82(Suppl. 1):55.

Thornton, R.B. and N. Mills. Producer designed field trials to determine the effectiveness of new products within the dairy herd: Posilac and Protectein. J. Dairy Sci. Vol 82, suppl. 1, page 55.

Webster, T.M., J. Cardina, and **S.J. Woods.** 1999. Spatial and temporal expansion patterns of hemp dogbane (*Apocynum cannabinum*) patches. Proc. South. Weed Sci. Soc. 52:173.

Willard, S.T., **Amstutz, M. D.**, Abraham, E. J., Castano, J.P., Leaumont, D. C., Faught, W. J., and Frawley, L. S. 1999. Concurrent detection of growth hormone and prolactin gene expression in single, living mammosomatotropes. *Endocrinology*, suppl. abstr. #P1-87, pg. 153.

(peer reviewed)

Zimmerman, A. 1999. Diversity activities in an orientation course. *NACTA Journal* 43(2):15.

Zimmerman, A. A journal-based orientation course as a predictor of student success. *Conference Proceedings, Eighteenth Annual Conference on the First-Year Experience*, University of South Carolina, Columbia, pp.152-153.

8. Papers in Proceedings

Schramm, Lynn Anderson, March 1999. "Assessing Market Factors Using the Worldwide Web - A Distance Learning Pilot Study of Agricultural Equipment Dealers"- peer-reviewed paper accepted for publication in Midwest Business Association Annual Conference Proceedings, March 1999.

Schramm, Lynn Anderson, "Utilizing Group learning Dynamics Through Sales Lab Teams" Marketing Management Association 1999 Educator's Conference Proceedings, Harrison College of Business Southeast Missouri State University. September, 1999

Schramm, Lynn Anderson, "Practicum and Internship Combinations: An Alternative to Traditional Off-Campus Learning Experiences" Marketing Management Association 1999 Educator's Conference Proceedings, Harrison College of Business Southeast Missouri State University. September, 1999.

Headings, Mark E. 1999. Biology and Behavior of the Small Hive Beetle, *Aethina tumida*, A New Potential Pest in the Western Hemisphere. Proceedings of the 35th Annual Convention of the Caribbean Food Crops Society, Castries, St. Lucia.

Houston, L. 1999. Twelfth International Conference The First Year Experience sponsored by The University of South Carolina National Resource Center for the First-Year Experience and Students in Transition and the University of South Carolina."Student-Centered Learning in an Orientation Course: Empowering Students Through a Changing Paradigm. p. 129.

Bennett-Wimbush, K., A. Andrews, J. Jones. Effects of Differing Concentrations of Gentamicin Sulfate in Semen Extender on Sperm Motility and Velocity in Fresh and Cooled Stallion Semen. Proceedings of the 16th Equine Nutrition and Physiology Symposium, p. 260.

Bargar, R., **Zimmerman, A.**, and Bargar, J. 1999. Successful applications of typology in coursework: recommendations and a case study. *Proceedings: Thirteenth Biennial International Conference*, Association for Psychological Type, Kansas City, pp. 81-91. Conference was held in Phoenix.

Zimmerman, A. A simplified, holistic approach to calculating the design heating load and annual heating load of houses. *ASAE-NABEC Paper No. 9901*. Tenth Annual Northeast Agricultural/Biological Engineering Conference, Lancaster, PA.

Zimmerman, A. An interactive, multi-discipline, capstone, problem solving course for engineering technology students. *ASAE Paper No. 997027*. American Society of Agricultural Engineers/Canadian Society of Agricultural Engineers International Meeting, Toronto.

9. Editorships

Jim Carr:

Reviewer for Home Builders Press, articles for publication in the Proceeding of the Associated Schools of Construction and for The Journal of Construction Education.

Richard Dobec:

Advisory board of magazine *The Equine Athlete*

Greg Gordon:

Reviewer of technical articles submitted for publication in the Transactions of the ASAE in the Power and Machinery area, particularly dealing with hydraulics.

American National Standards Institute (ANSI) B93 committee - review and vote on technical standards.

Mark Headings:

Member of the Publications Committee for the NACTA Journal and serve as a reviewer of articles for the NACTA Journal.

Linda Houston:

Referee for Teaching English in the Two-Year College Journal. This journal is the major two-year college English journal published by the National Council of Teachers of English.

David Munn:

Reviewed two chapters (13-14) in Env. Science Text for pay for WCB/McGraw Hill Publishers, 246 Keyser Blvd, Dubuque, IA 52001. Environmental Science; A Study of Relationships.

Steve Neal:

Editorial Board – "The Professional Animal Scientist" Peer Reviewed Journal

Manuscript Reviewer – "Journal of Animal Science" Peer Reviewed journal

Reviewer for the National Pork Industry Handbook

Published by Purdue University

National/International Pork Industry Reference Book

Manuscript Reviewer – "NACTA Journal" Peer Reviewed Journal

Jean Opliger:

Member of the editorial board and reviewer for *The Journal of Teaching and Learning*

Sha Rahnema:

Reviewer for the National Association of Colleges and Teachers of Agriculture (NACTA) journal.

Robert Rupp:

Served as a "Reviewer" of two chapters (Chapter 4 - "Tissues," and Chapter 23 - "Flowering Plants") of the eighth edition of *Introductory Plant Biology*, by Kingsley R. Stern, for McGraw-Hill Publishing Company, 5/99.

Peer Reviewer *American Biology Teacher Journal*.

Lynn Anderson-Schramm:

American Marketing Association Winter Educators Conference - Reviewer "Technology, New Venture, and the Internet" track- reviewed paper on "The Influence of Product

Uniqueness on Retailers' Acceptance of New Products: An Empirical Case Study" for inclusion in conference proceedings

Royce Thornton:

Assistant editor/reviewer with the genetic improvement domain group for version 4.0 of the National Dairy Database (Infobase) at the ADDS center (Agricultural Databases for Decision Support), Verona, WI. The ADDS project is sponsored by the Cooperative State Research, Education, and Extension division of USDA.

Karen Wimbush:

Reviewer for Journal of Equine Veterinary Science.

Sam Woods:

Reviewed a new textbook for Prentice Hall book company.

Allen Zimmerman:

Peer Reviewer, *NACTA Journal*

Peer Reviewer, *ATEA Journal*

Peer Reviewer, *JTASS*

Peer Reviewer, *OATYC Journal*

Tom Zimmerman:

Reviewer for Transactions of the ASAE

Reviewer for Journal of Environmental Quality

B. PRESENTATIONS

Gary Anderson presented a program on Period Floral Design to the Ohio Association of Garden Clubs, Exhibitor and Judge's School.

Gary Anderson and Larry Steward presented programs to vocational horticulture teachers at the 1999 Agricultural Education Summit.

Jim Carr presented on the topic: "Homes in the New Millennium". The Ohio Association of Family and Consumer Sciences Annual Meeting, Akron, October 7, 1999.

Ken Cochran presented "*Juniperus* Selection and Culture" at the Ohio State Nursery Short Course.

Ken Cochran presented "Tree Evaluation at OARDC's Sequest Arboretum" as a keynote address at the Tree City USA annual program in Grove City, OH.

Headings, Mark E. 1999. Mechanical Control of Colorado Potato Beetle, Annual Conference of the North Central Branch of the Entomological Society of America, Des Moines, Iowa, March 30.

Headings, Mark E. 1999. Density of Ants in Soil of a Jack Pine Forest. The Annual National Conference of the Entomological Society of America, Atlanta, Georgia, December 12.

Linda Houston. "Repaving Traditional Teaching Techniques: Student-Centered Learning in the Classroom and Beyond" presented at TYCA-Midwest Conference, Kansas City, Missouri, October 7-9, 1999.

Linda Houston. "Student-Centered Learning in an Orientation Course: Empowering Students Through a Changing Paradigm." Twelfth International Conference The First Year Experience sponsored by The University of South Carolina National Resource Center for the First-Year

Experience and Students in Transition and the University of South Carolina.

Linda Houston. "Removing the Cloak of Invisibility: Building Academic Self-Esteem in Basic Writers." Presented at Conference on College Composition and Communication. Presented with three colleagues from California, St. Louis, and Ohio.

Linda Houston and Shirley Lunsford. Invited by the conference to present at the Ohio Vocational Association All Ohio Conference on the topic EECAP Portfolio Assessment. August 10-11, 1999, Columbus, OH.

Shirley Lunsford and Ella Copeland. Exploring Resources in Cyberspace: A classroom/Library Partnership. Tenth Annual Teaching Academic Survival Skills (TASS) Conference. Northern Essex Community College, Haverhill, MA. March 15, 1999.

Shirley Lunsford and Linda Houston. Community Partnership: Mentoring Portfolio Usage in a Tech Prep Consortium. 1999 Annual Conference on Teaching and Learning, "Success for Kids." Columbus Convention Center, Columbus, OH. April 28, 1999.

Shirley Lunsford. Community Partnership: Mentoring Portfolio Usage in a Tech Prep Consortium. 1999 All Ohio Conference for Career, Technical and Adult Education. Columbus, OH. August 10, 1999.

Shirley Lunsford. Community Partnership: Mentoring Portfolio Usage in a Tech Prep Consortium to Prepare for College and Beyond. , Presenter and Facilitator. 1999 National Tech Prep Network Annual Conference. Pittsburgh, PA. October 8, 1999.

Shirley Lunsford et. al. Collaborative Projects for Information Literacy and Competency in Cyberspace. League for Innovation in the Community College 15th Annual International 1999 Conference on Information Technology. Chicago, IL.

Shirley Lunsford with Pam Maxwell. Creating the Reading Portfolio: Ensuring Possibilities. Ohio Association for Developmental Education (OADE). Akron, OH. November 4, 1999.

Miller, Emil, Jean Opliger and Rob Petit, "Working Together: Best Practices for Designing Learning Outside the College Classroom," American Mathematics Association of Two-Year Colleges, October 22, 1999.

Opliger, Jean and David Estrop, "Developing Collaborative Partnerships for the Future," International Conference on Teaching and Leadership, NISOD Conference, Austin, Texas, May, 1999.

Dan Voltz presented a seminar entitled: "Disease Prevention and Control" for Graf Growers Winter Seminar Series

Dave Willoughby presented "Recommendations For A Successful Professional Industry-Employment Internship For College Faculty" at the 1999 NACTA Conference in Blacksburg, Virginia.

Zimmerman, A. Using journals and journal writing in educational and career settings. Tenth Annual Northeast Agricultural/Biological Engineering Conference, Lancaster, PA. Invited presentation.

Zimmerman, A. Student Performance in a required student success course as a predictor of retention and graduation. Noel-Levitz 13th National Conference on Student Retention, San Francisco.

Zimmerman, A. Demystifying the psychrometric chart. Annual Affordable Comfort Conference, Chicago. Invited presentation.

Karg, R. and **Zimmerman, A.** Concepts in thermal comfort. Annual Affordable Comfort Conference, Chicago. Invited presentation.

Zimmerman, A, Opliger, J. and Searcy, M. The partners in progress program at Seaman Corporation: a Seaman/Ohio State University educational partnership. American Technical Education Association 36th Annual National Conference on Technical Education, Reno.

Tom Zimmerman made a presentation to a Regional Soil & Water Conservation District group regarding Constructed Wetlands. I was part of a session that included an Extension Agricultural Engineer from Cornell University, Peter Wright.

III. SERVICE

A. PROFESSIONAL SERVICE

1. Professional Associations (offices, boards, etc.)

Lynn Anderson-Schramm:

Midwest Marketing Association, Member, Conference Discussant, Panel Member
Ohio Grocers Association, Member - Foundation Committee

Jim Carr:

Trustee of the Home Builders Institute (HBI)
Student Chapters Faculty Advisory Board of the National Association of Homebuilders
Ohio State Apprenticeship Council
Secretary-Treasurer of the Buckeye Rural Builders Association

Greg Gordon:

American National Standards Institute (ANSI) Fluid Power Systems and Products Standards Committee (B93)

Mark Headings:

President and member, Alpha Epsilon Chapter of Phi Beta Delta (Honor Society for International Scholars)
Member of the NACTA Publications Committee and article reviewer for the *NACTA Journal*

Linda Houston:

TYCA-Midwest representative to TYCA-National
Chair, Task Force for TYCA Mentoring Two-Year College Faculty for Publication in the Profession
OADE Committee-Chair for Political Affairs-resigned September, 1999.

Shirley Lunsford:

OCIRA (Ohio Council of International Reading Association)
Board of Directors and Executive Committee
Area 10 Field Representative
Integrating Reading/Writing Committee, Executive Cttee. Liaison
Adult Literacy Committee, chair
Wayne County Council of the International Reading Association (WCCIRA)
Area Rep., Steering Committee Chair, Membership Committee
Transition and Communication Consortium on Learning Disabilities (TACCLD), 1999

conference moderator

TACCLD (Transition and Communication Consortium on Learning Disabilities)

Conference moderator

Ohio Assn. Developmental Education (OADE) conf. presenter

Emil Miller:

Professional Societies

The Ohio Mathematics Association of Two-Year Colleges (Ohio MATYC)

Member of the OhioMATYC Advisory Committee.

The American Mathematics Association of Two-Year Colleges (AMATYC)

Serving on the Developmental Mathematics Committee and on the Technical Mathematics Committee of the AMATYC.

The Ohio Association of Developmental Education (OADE)

Member of the Developmental Math SIG Group

The Ohio Association of Two-Year Colleges (OATYC)

The Ohio Mathematics Education Leadership Council (OMELC)

David Munn:

Member of the American Society of Agronomy Student Speech Contest assuming Chair for 2000, 2001.

Royce Thornton:

COBA/SELECT SIREs: delegate to board of directors.

Ohio Holstein Association: member, delegate at state convention.

Karen Wimbush:

Member of the Equine Nutrition and Physiology Society's Reproduction committee for 1999-2001.

Member of American Registry of Professional Animal Scientists

Member of American Horse Show Association

Sam Woods:

ARCPACS board is an appointed position. Chairmanship is an elected position.

Allen Zimmerman:

American Society of Agricultural Engineers (ASAE)

Member - P-205, Engineering Technology and Management Education Committee

Member - Program Committee, ASAE-NABEC. Served as a Session Moderator at the annual NABEC Conference.

National Association of Colleges and Teachers of Agriculture - Publications Committee

American Technical Education Association - Editorial Committee, Program Committee

Ohio Association of Two-Year Colleges - Editorial Board

Teaching Academic Survival Skills - Editorial Board

Tom Zimmerman:

American Society of Agricultural Engineers (ASAE) member of the following committees:

SW-07 - Nomenclature, SW-23 - Drainage Group (past chair), SW-231 - Water Table

Management in Humid Regions, SW-246 - Turf & Landscape Irrigation, T-09 - Environmental Quality Coordinating

Ohio Section of the ASAE, member of nominating committee

2. Trade Associations (officer, boards, etc.)

Kent Hammond was part of the review team for the new updated ONLA OCNT Landscape Installer's Training Manual. He also reviewed the new international ALCA CLT Certification

Training Manual. He updated the 1999 Horticulture & Landscaping Educational Programs of the United States and Canada for ALCA and was the primary author of the new Ohio CLT Plant Sensitivity Study Guide for CLT testing.

Kent Hammond is State Chairman of the Ohio CLT Testing Program. This is a joint partnership between Ohio State ATI, ONLA, OLA and ALCA.

Kent Hammond served on the following ALCA (Associated Landscape Contractors of America) Committees: Accreditation/Curriculum Committee, ALCA Student Career Day Committee, International Landscape Technician Council, and as Chairman of the Ohio ALCA CLT Testing Program. He also served on the following ONLA (Ohio Nursery and Landscape Association) State Committees: State Certification Committee, Student Scholarship Committee.

Ken Cochran enlisted and coordinated all moderators for the Ohio State Nursery Short Course.

Ken Cochran was a member of Research Committee, Holden Arboretum.

Terry Lanker and Gary Anderson served on the Ohio Florists' Association Retail Short Course Planning Committee and Ohio Florists' Association Decorations Committee.

Terry Lanker served as American Institute of Floral Designers Student Chapter advisor.

Steve Neal is a member of the American College of Animal Genetics Board of Directors. Serves as a Charter Diplomat and is on the Genetics Certification Board for ARPAS

3. Discipline Related to the Community

Horticulture faculty participated in the Wooster Garden Festival, a major public relations event, showcasing the horticulture gardens on campus.

Gary Anderson presented four floral design programs to local and regional groups.

Mike Fulton served on the advisory committee for Noble Correctional Institute in Caldwell.

Bob McMahon spoke to the following organizations, Insight (Cleveland dinner club), Wooster Rotary Club, ATI/OARDC Women's Club, and the Cleveland Botanical Garden.

Terry Lanker designed the feature Christmas tree for the Wayne County Red Cross Festival of Trees.

Mike Borger: President of The Wayne County Cattlemans Association

Mr. Carr participated in the Spring, Summer and Fall Board meetings of the Ohio Home Builders Association. He promoted ATI's construction program and its graduates. He also participated in various discussions on topics related to the residential construction industry.

Linda Houston:

EECAP-Early English Composition Assessment Program-work with Tech-Prep high school teachers and students to prepare the students for first year composition in college.

Advisory Committee-Career Center Advisory Committee for Communications/English

Member of Unity in the Community-not English specific, but asked as a member of ATI.

Member-Martin Luther King Jr. Celebration-College of Wooster. Asked to participate as a member of ATI, though not the English Department.

Shirley Lunsford participated in the Voices for Children (Child Advocacy Citizens Committee). 6th Annual Community Breakfast/Reception and the Resource and Information Sharing Coalition for Binge Drinking Prevention (hosted by College of Wooster)

David Munn served as a judge for Triway Jr. High Science Fair, Feb. 24, 1999, as a judge for Greene Middle School Science Farm, Smithville, Feb. 18, 1999 and as a judge for Ashland University District Science Fair, March 1999.

Steve Neal is on the Greater Wayne Co. Foundation, Inc. - Robert D. Jollay Scholarship Selection Committee.

Robert Rupp served as a State Science Day Judge of 4 botany projects, Ohio Wesleyan University, Delaware and as a Science Fair Judge of 2 medical health and 1 microbiology projects, Triway Jr. High School, Wooster, Ohio

Elder Stewart served as treasurer and registrar for The College of Wooster Clergy Academy, on the AIDS quilt consortium and working with inmate groups at the Grafton Correctional Institution.

Royce Thornton served as one of the three judges to select the winner of the Outstanding Junior Exhibitor Memorial Award and Scholarship sponsored by Holstein USA, Inc. at the Ohio Spring Dairy Expo.

Dr. Wimbush is on the Board of Directors of *No Boundries*, a therapeutic riding program in Wooster, Ohio.

Sam Woods served as judge for all field crops and some vegetables at the Wayne County Fair and judged the Baughman Grange Corn Show in Nov. 1999.

Allen Zimmerman serves as an energy efficiency consultant for the Wayne County Habitat for Humanity and is involved in Affordable Comfort, Inc. - a non-profit organization which promotes energy and resource efficient buildings and sponsors a national conference. He also was physics judge - Mohican Valley Science Day, Ashland University

Tom Zimmerman judged at the Triway Jr. High Science Fair, February 24, 1999, and judged at the Ashland University District Science Fair, March 27, 1999.

B. ACADEMIC SERVICE

1. College

Mike Amstutz: OSU Swine Team member - extension education team

Gary Anderson: College Promotion and Tenure Committee and Vice President's Advisory Council.

Mike Borger: Plant Discovery Day committee

Ron Borton: Member of the College of FAES Animal Use and Care Committee

Jim Carr: Student Center Learning Initiative of the college.

Wesley Greene: ATI Director Search Committee, appointed, Aug. 1999-present

Mark Headings: Member, OSU Agriculture Faculty Council (term completed June 30)

Linda Houston: Regional Campus Advisory Committee for English
SCLI-College of Food, Environmental and Agricultural Sciences.

Phil Kroll: Member of ATI-OARDC Safety Committee

Steve Neal: College of FAES Master Plan Development for College Facilities and Land

Sha Rahnema: Member of the Director's search committee.
Steering committee and "Reward Team" member for Project Reinvent.
Member of the V.P. Advisory Council.

Lynn Anderson-Schramm: CEED Operations Planning Committee - served on committee with community leaders, OARDC administrative personnel, and ATI administrative personnel to provide input to operational plans for proposed CEED center.

D. Elder Stewart: University Roads Scholar participant
Service Learning Scholars Roundtable

Royce Thornton: OSU Dairy Team - subgroup responsible for the OSU Dairy Farm
Employee Short Course
OSU Dairy Restructuring Team

2. University

Ron Borton: Member of the Campus Campaign Council

Mark Headings: Member, OSU Phi Beta Delta - Alpha Epsilon Honor Society for International Scholars
Research Fellow in the OSU Center for African Studies

Allen Zimmerman: Alternate Member - University Senate/Faculty Council
Member - Council on Student Affairs
Member - Nominating Committee for Outstanding Organization and Outstanding Student Organization Advisor Awards.

C. CONSULTATIONS

Ken Cochran advised the Malabar Farm Board of Directors concerning tree plantings at the farm.

Greg Gordon worked as a consultant in three lawsuits (two with significant activity) as an expert witness.

Wesley Greene consulted with numerous dairy industry representatives regarding management decisions.

Kent Hammond was a member of the 3-year review team for the Cuyahoga County Community College horticulture program.

Mark Headings offered consultation to the general public at least 16 times in 1999 regarding pest problems and their control as well as concerning other insect and pesticide-related questions.

Linda Houston participated in Houghton Mifflin Faculty Development Workshops-coordinator and presenter for Writing workshops. Linda also provided textbook reviews for Longman Publishers and Mayfield Publishers.

Phil Kroll was invited to teach in the Ohio AFL-CIO resident summer school at Kenyon College.

Terry Lanker provided fresh flower care and handling information to author Libby Oliver during the development of her book Flowers are Almost Forever: The care and Handling of Cut Flowers, Brandyane Publishers, Inc., White Stone, VA.

Shirley Lunsford consulted with English faculty on Bridging the Gap Grant: ATI/West Holmes High School Two-day Faculty Curriculum Mapping Workshop. Shirley also participated in the Early English Composition Assessment Program (EECAP) and consulted with Tech Prep high school English teachers.

Emil Miller consultant for the "Closing the Gap" Grant for ATI/West Holmes School District. His role was to observe the mapping strategies being worked on by the Math Faculty and contribute suggestions on bridging the gap between high school and college. Emil also worked with the Personnel Department of Seaman Corporation in developing alternate forms of the assessment tests for the fabrication area and for the coating/mixing areas. Emil continued meeting with the Rexroth Corporation personnel to plan for instruction on various measuring devices and reading blueprints.

Steve Neal served as a research proposal reviewer: USDA Reproductive Biology of Animals Program - Part of the National Research Initiative Competitive Grants Program (NRICGP) Enhancing Reproductive Efficiency

Jean Opliger was a reviewer and leader/member of on-site reviews for the Governor's Workplace Excellence Award and Co-chair and member of Partners in Progress, the cross-functional team for organizational development at Seaman Corporation, Wooster.

Lynn Anderson-Schramm: Case Corporation - worked with Continuing Education on initial project meetings and RFP submittal for Sales training project for Case dealerships sales associates; Rubbermaid - met with representatives to discuss industry training project for sales managers in sales and presentation skills; and Nevada Department of Wildlife - developed proposal for survey of Big Game hunter's expectations for the Nevada Wildlife commission.

Larry Steward was a consultant for Land Stewards of North America, Ltd., Hampton Roads Agricultural and Extension Center and Kendal Corporation.

Dave Willoughby consulted for Northern Ohio Golf Course Superintendents' Association, Advanced Irrigation, Premier Golf Construction, and Ohio Agri-Urban.
Karen Wimbush provided expert testimony for a legal case that involved teaching riding and riding safety.

IV. GRANTS AND CONTRACTS

A. COMPETITIVE GRANTS

1. Proposals submitted and funded

2. RCOSA activity funded internally at ATI

Mike Amstutz: Recombinant protein production in the porcine mammary gland.

Mike Borger and Wesley Greene: Beef cattle estrus synchronization.

Jim Carr: OSU UTS Small Grant Program for the purchase of a digital camera.

Richard Dobec: Relationship of longissimus dorsi muscle to racing performance in horses.

Mike Fulton: Soil and tissue samples from turf plots.

Mark Headings: Field research on the Colorado potato beetle

Linda Houston: Get Real Alcohol Coalition Mini-grants from the Wellness Center at Ohio State University for research and classroom infusion

Student-Centered Learning Initiative, College of FEAS

Service Learning grant for materials in our classes (with D. Stewart)

Bob McMahon: Part of a team that was granted \$4,500 from OARDC Industry Small Grant Competition for the study, "Potential Influence of Coir on Western Flower Thrips Survival and Damage."

David Munn: Stein, Inc., to support research evaluating steel industry slags

D. Elder Stewart: OSU Cares grant to facilitate collaboration with Dr. Barbara James, an extension faculty working with the Amish in northeast Ohio

\$10,000 University Seed Grant - research in Amish music

Dave Willoughby and Allen Zimmerman: "Readability of Turfgrass and Golf Course Management Textbooks, Periodicals, and Work-Related Manuals."

Dave Willoughby and Dan Voltz: "Take-All Patch Management in Ohio."

Karen Wimbush: Effects of Antibiotics on Sperm Motility and Velocity in Cooled Stallion Semen

3. Proposals submitted but not funded

U.S. Department of Education – Strengthening Institutions Program Title III Proposal – Increasing Student Access and Success through the Development of a Distance Education Program - \$1,748,300 grant proposal

Submitted: May, 1999, notified September, 1999 that the proposal was not funded

AGRICULTURAL TECHNICAL INSTITUTE

1999 ACTIVITY REPORT

Will be re-submitted in the winter of 2000

D. Elder Stewart: Technology grant -National Endowment for Humanities Community Colleges for Literature and Humanities

B. GIFT ACTIVITY

Yoder Brothers and Paul Ecke Company - \$3000 in plant material

Dosatron Company - fertilizer proportioner and a fertilizer injector was donated by Dosmatic – Combined value of \$920

Rexroth Mobile Hydraulics - components \$10,000+

Paquin Company – hydraulic cylinders, switches, hose, fittings, etc. \$5000

Kubota Tractor - ten small engines & manuals \$4500

V. INTERNATIONAL ACTIVITIES

Gary Anderson attended national meeting of the American Association of Botanical Gardens and Arboreta, Vancouver, BC, Canada.

Gary Anderson and other horticulture faculty hosted visiting lecturer Kaj Pharsen from Aalborg Technical College in Denmark. He visited classes taught by McMahon, Cochran, Steward, Hammond and Anderson.

Larry Steward participated in a 10-day trip to study the native flora in Nova Scotia.

Sha Rahnema presented two seminars: "Aquaculture Systems and Production Methods" and "Recent Development in Utilization of Industry By-products by Livestock", to a group of 100 faculty, staff and students, on December 18, 1999, at the University of Uromieh, in Iran. He is working to develop a close working relationship with the University of Uromieh and the Ministry of Agriculture in Iran for collaborative activities, exchange of faculty and students, and an agreement for workshops and continuing education activities.

VI. AWARDS AND HONORS

Mike Borger: Recipient of ATI Distinguished Teaching Award
Recipient of College FAES Teaching Award

Ron Borton: Selected as ATI Outstanding Advisor
Selected as College Outstanding Advisor

Mark Headings: Received the Outstanding International Scholar Award from the Alpha Epsilon Chapter of Phi Beta Delta (Honor Society for International Scholars at OSU, 1999.

David Munn: Wayne Co. Soil and Water District (Secondary/Post Secondary) Outstanding Conservation Teacher 1999.

Sha Rahnema: Inducted into the Alpha Epsilon Chapter of Phi Beta Delta Honor Society for International scholars based on my involvement in international activities (April 30, 1999).

Allen Zimmerman: Received the NACTA Teaching Fellow Award.

The Ohio State University



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